2007 RESEARCH PROBLEM STATEMENT				
Problem Title: THE SYNTHE	SIS OF DESIGN	GUIDELINES FO	R CARRELUAL DA	O.: PENFURL
Submitted By: LAWRENCE D.				CONCRET GCIVIL. UTAh. ed u
Project Champion: DAVID EIXE		CHARD MILL	ER	
(UDOT or FHWA employee who needs this reservesults. If the project gets prioritized at the UTR	earch done, will help the Resea	rch Division lead this pro	oject, and will spearh	ead the implementation of the ling.)
1. Briefly describe the problem to be ac				
THERE ARE MANY D	IFFERENT SUG	GESTED APP	PROACES FOR	THE DESKN
AND CONSTRUCTION OF C	DRRUSION RESIS	TANT CONCR	ETE STRUCTU	ires. This project
WILL GENERATE A D	ESIGN GUIDEN	En 110m		
of the state of the pict	· PRACTICES, AND.	THE CONSIDER	PATUN OF LI	FE CYCLE COSTS,
2. Strategic Goal: Preservation	on Operation	☐ Capacity	∑ Safety	(check all that apply)
3A. List the research objective(s) to be a 1. DEFINE THE STATE	accomplished:	t. CORRUSION	RESISTANT I	DESIGN
2. CONSIDER THE USE				
3. IDENTIFY ALTERNATI	VE DESIGNS and	CONSTRUCTION	J PRATICES O	and the other
* WKILE H DESIGN CI	MOSLINE THAT	WILL ESTABLE	SH ALTED	IATIVES TIM
ENGINEERS TO CO	INSIDER WHEN	DESIGNING L	IDOT STRU	CTURES.
3B. List the major tasks to accomplish t	the research objective(s):		Estimate	ed person-hours:
1.)			1	120 7
2. AS NOTED IN 3A.			2	120 COMBINATION CONFACURTY
3.			3	
4.9			4	180 JGRADUATE
3.				Sturbut
				TIME
				<i>~</i>
4. Estimate the cost of this research stud	dy including implementa	tion effort (use perso	on-hours from No	.3B): \$ 25,000 -
5. Indicate type of research and/or development Large: Research Project Small: Research Evaluation	elopment project this is Development Proje Experimental Feat		ect Evaluation	【 Tech Transfer Initiative
(A small project is usually less than \$20,000 and	shorter than 6 months)			
6. Outline the proposed schedule (when	do you need this done, a	nd how will we get t	here):	
THE PROJECT WOU	LO REGUIRE A	PPRUX IM ATI	ELY 10 ma	ints of
CALBUDAR TIME	. I WOUND BE	BEST IFT	THE COUTDS	et call o
START AT THE EN	DOF AUL 17		- CONTET	

2007 RESEARCH PROBLEM STATEMENT

7. What type of entity is best suited to perform this project (University, Consultant, UDOT Staff, Other Agency, Other)?

UNIVERSITY - (MY UPINIUN, ZUR)

8A. What deliverables would you like to receive at the end of this project? (e.g. useable technical product, design method, technique, training, workshops, report, manual of practice, policy, procedure, specification, standard, software, hardware, equipment, training tool, etc.)

A DESIGN GUIDELINE WOULD BE PRODUCED THAT WOULD INCLUDE OPTIONS THAT CONSIDER ED VARIOUS LIFE CYCLE COSTS.

8B. Describe how this project will be implemented at UDOT.

DESIGN ENGINEERS WOULD BE ABLE TO HAVE DIRECT GUIDANCE TO SET AND MIRET PROJECT CRITICRIA.

8C. Describe how UDOT will benefit from the implementation of this project, and who the beneficiaries will be.

PROJECT MANAGERS AND DESIGNERS WILL HAVE AT THEIR DISPUSAL TAC REVIEW AND APPRIVED DESIGN GUIDELINES THE WILL LEND TO THE IMPROVED PERFORCE OF CONCRITE STRUCTURES

9. Describe the expected risks and obstacles as well as the strategies to overcome them.

THERE IS LITTLE RISK ASSOCIATED WITH THIS PROPOSED PRUJET, THE PRYCET DOES REGIOD A FULLY ENGAGED TAC. THIS PROJECT WILL ENGRES A NUMBER OF INDIVIOURLS FROM DIFFERNT TECHNICAL BACKGROUNDS FROM WITHIN THE UDOT PROFESSIONAL STAFF

10A. List other people (UDOT and non-UDOT) who are willing to participate in the Technical Advisory Committee (TAC) for this study:

Name

Organization / Division / Region

Phone

Email

DAVID EIXENBERG.

TIM BEAL

RICHARD MILLER SPACESTED BUT

NOT DIRECTLY CONTACTED

10B. Identify other Utah, regional, or national agencies and other groups that may have an interest in supporting this study:

N.A. AT THIS LEVEL OF FUNDING